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EXAMINER'S AMENDMENT

An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Ross D. Snyder (Reg. No. 37,730) on 3/31/08.

The claims in the application has been amended as follows:

- (Currently amended) A method for processing call signaling messages, the method comprises the steps of:
- receiving a plurality of call signaling messages;
- comparing a queue occupancy level of a call processing queue with a first queue occupancy threshold; and
- c) when queue occupancy level compares unfavorably with the first queue occupancy threshold, enqueuing the plurality of call signaling messages into the call processing queue based on types of call signaling messages, wherein the types of call signaling messages include dispensable messages and indispensable messages, wherein step (c) further comprises:

when a call signaling message of the plurality of call signaling messages is a dispensable message, deleting from the call processing queue a previously queued dispensable message when the previously dispensable message exists; enqueuing the call signaling message into the call processing queue when the previously queued dispensable message is deleted; and

when the call signaling message is an indispensable message, enqueuing the call signaling message into the call processing queue; and

when the previously queued dispensable message does not exist and when the call signaling message is a dispensable message, dropping the call signaling message.

- (Canceled)
- (Canceled)
- (Canceled)
- (Currently amended) A method for processing call signaling messages, the method comprises the steps of:
- a) receiving a plurality of call signaling messages;
- comparing a queue occupancy level of a call processing queue with a first queue occupancy threshold; and
- when queue occupancy level compares unfavorably with the first queue occupancy threshold, enqueuing the plurality of call signaling messages into the call processing queue based on types of call signaling messages;

comparing the queue occupancy level with a second queue occupancy threshold;

when the queue occupancy level compares unfavorably with the second queue occupancy threshold:

when a call signaling message of the plurality of call signaling messages is a dispensable message or an indispensable message, deleting from the call processing queue a previously queued dispensable message when the previously dispensable message exists;

enqueuing the call signaling message into the call processing queue when the previously queued dispensable message is deleted; and

when the previously queued dispensable message does not exist and when the call signaling message is a dispensable message, dropping the call signaling message.

- (Canceled)
- (Currently amended) A method for processing call signaling messages, the method comprises the steps of:
- a) receiving a plurality of call signaling messages;
- comparing a queue occupancy level of a call processing queue with a first queue occupancy threshold; and
- when queue occupancy level compares unfavorably with the first queue occupancy threshold, enqueuing the plurality of call signaling messages into the call processing queue based on types of call signaling messages;

comparing the queue occupancy level with a second queue occupancy threshold;

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when the queue occupancy level compares unfavorably with the second queue occupancy threshold:

when a call signaling message of the plurality of call signaling messages is a dispensable message or an indispensable message, deleting from the call processing queue a previously queued dispensable message when the previously dispensable message exists and enqueuing the call signaling message into the call processing queue when the previously queued dispensable message is deleted;

when the previously queued dispensable message does not exist and when the call signaling message is an indispensable message, deleting from the call processing queue a previously queued indispensable message when the previously indispensable message exists and enqueuing the call signaling message into the call processing queue when the previously queued indispensable message is deleted; and

when the previously queued dispensable message does not exist, when the previously queued indispensable message does not exist, and when the call signaling message is an indispensable message, dropping the call signaling message.

(Canceled)

- (Previously presented) The method of claim 1 further comprises, when in a sustained overloading condition, dequeuing dispensable call signaling messages in a first dequeuing manner from the call processing queue.
- (Original) The method of claim 9, the first dequeuing manner further comprises at least one of FIFO and LIFO.
- 11. (Previously presented) The method of claim 1 further comprises:

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maintaining a plurality of dequeuing lists, wherein the plurality of dequeuing lists track available locations in the call processing queue, an ordered list of types of call messages, an ordered list of dispensable messages, and an ordered list of indispensable messages.

- 12. (Original) The method of claim 11 further comprises updating the plurality of dequeuing lists when enqueuing changes occur, wherein the enqueuing changes occur when the queue occupancy level compares unfavorably with the first queue occupancy threshold or when the queue occupancy level compares unfavorably with a second queue occupancy threshold.
- 13. (Original) The method of claim 11 further comprises dequeuing dispensable call messages from the call processing queue in a LIFO manner based on the ordered list of dispensable messages when in a sustained overloading condition.

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14. (Currently amended) A method for processing call signaling messages, the method comprises the steps of:

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- receiving a plurality of call signaling messages;
- enqueuing the plurality of call signaling messages into a call processing queue based on type of call signaling messages and queue occupancy level of the call processing queue;
- when in a sustained overload condition, dequeuing a first type of call signaling message from the call processing queue in a first dequeuing manner; and

maintaining a plurality of dequeuing lists, wherein the plurality of dequeuing lists track available locations in the call processing queue, an ordered list of types of call signaling messages, an ordered list of dispensable messages, and an ordered list of indispensable messages.

- (Previously presented) The method of claim 14, wherein the types of call signaling messages include dispensable messages and indispensable messages.
- 16. (Previously presented) The method of claim 15 further comprises:

when the queue occupancy level compares unfavorably to a first queue occupancy threshold:

when a call signaling message of the plurality of call signaling messages is a dispensable message, deleting from the call processing queue a previously queued dispensable message when the previously dispensable message exists;

enqueuing the call signaling message into the call processing queue when the previously queued dispensable message is deleted; and

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when the call signaling message is an indispensable message, enqueuing the call signaling message into the call processing queue.

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17. (Previously presented) The method of claim 15 further comprises:

comparing the queue occupancy level with a second queue occupancy threshold;

when the queue occupancy level compares unfavorably with the second queue occupancy threshold:

when a call signaling message of the plurality of call signaling messages is a dispensable message or an indispensable message, deleting from the call processing queue a previously queued dispensable message when the previously dispensable message exists;

enqueuing the call signaling message into the call processing queue when the previously queued dispensable message is deleted.

18. (Original) The method of claim 17 further comprises:

when the previously queued dispensable message does not exist and when the call signaling message is an indispensable message, deleting from the call processing queue a previously queued indispensable message when the previously indispensable message exists; and

enqueuing the call signaling message into the call processing queue when the previously queued indispensable message is deleted.

19. (Canceled)

20. (Previously presented) The method of claim 14 further comprises updating the plurality of dequeuing lists when enqueuing changes occur, wherein the enqueuing changes occur when

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the queue occupancy level compares unfavorably with a first queue occupancy threshold or when the queue occupancy level compares unfavorably with a second queue occupancy threshold.

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21. (Previously presented) The method of claim 14 further comprises dequeuing dispensable call messages from the call processing queue in a LIFO manner based on the ordered list of dispensable messages when in a sustained overloading condition.

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22. (Currently amended) A call signal processing module comprises:

a call processing queue;

a processing module; and

memory operably coupled to the processing module, wherein the memory stores operational instructions that cause the processing module to: (a) receive a plurality of call signaling messages; (b) compare a queue occupancy level of the call processing queue with a first queue occupancy threshold; (e) enqueue, when queue occupancy level compares unfavorably with the first queue occupancy threshold, the plurality of call signaling messages into the call processing queue based on types of call signaling messages; compare the queue occupancy level with a second queue occupancy threshold; when the queue occupancy level compares unfavorably with the second queue occupancy threshold: delete a previously queued dispensable message from the call processing queue when a call signaling message of the plurality of call signaling messages is a dispensable message or an indispensable message and when the previously dispensable message exists; enqueue the call signaling message into the call processing queue when the previously queued dispensable message is deleted; and drop the call signaling message when the previously queued dispensable message does not exist and when the call signaling message is an indispensable a dispensible message.

- (Previously presented) The call signal processing module of claim 22, wherein the types
 of call signaling messages include dispensable messages and indispensable messages.
- 24. (Previously presented) The call signal processing module of claim 22, wherein the memory further comprises operational instructions that cause the processing module to:

enqueue the call signaling message into the call processing queue when the call signaling message is an indispensable message.

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(Canceled)

26. (Previously presented) The call signal processing module of claim 22, wherein the memory further comprises operational instructions that cause the processing module to:

delete a previously queued indispensable message from the call processing queue when the previously queued dispensable message does not exist and when the call signaling message is an indispensable message and when the previously indispensable message exists; and

enqueue the call signaling message into the call processing queue when the previously queued indispensable message is deleted.

(Canceled)

28. (Previously presented) The call signal processing module of claim 22, wherein the memory further comprises operational instructions that cause the processing module to:

dequeue dispensable call signaling messages in a first dequeuing manner from the call processing queue when in a sustained overloading condition.

29. (Previously presented) The call signal processing module of claim 22, wherein the memory further comprises operational instructions that cause the processing module to:

maintain a plurality of dequeuing lists, wherein the plurality of dequeuing lists track available locations in the call processing queue, an ordered list of types of call messages, an ordered list of dispensable messages, and an ordered list of indispensable messages.

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30. (Original) The call signal processing module of claim 29, wherein the memory further

comprises operational instructions that cause the processing module to:

update the plurality of dequeuing lists when enqueuing changes occur, wherein the enqueuing

changes occur when the queue occupancy level compares unfavorably with the first queue

occupancy threshold or when the queue occupancy level compares unfavorably with a second

queue occupancy threshold.

31. (Previously presented) The call signal processing module of claim 22, wherein the

memory further comprises operational instructions that cause the processing module to:

dequeue dispensable call messages from the call processing queue in a LIFO manner based on

the ordered list of dispensable messages when in a sustained overloading condition.

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32. (Currently amended) A call signal processing module comprises:

a call processing queue;

a processing module; and

memory operably coupled to the processing module, wherein the memory stores operational instructions that cause the processing module to: (a) receive a plurality of call signaling messages; (b) enqueue the plurality of call signaling messages into the call processing queue based on type of call signal messages and queue occupancy level of the call processing queue; (e) dequeue a first type of call signal message from the call processing queue in a first dequeuing manner when in a sustained overload condition; and maintain a plurality of dequeuing lists, wherein the plurality of dequeuing lists track available locations in the call processing queue, an ordered list of types of call messages, an ordered list of dispensable messages, and an ordered list of indispensable messages, wherein the types of call signaling messages include dispensable messages and indispensable messages.

33. (Canceled)

34. (Previously presented) The call signal processing module of claim 32, wherein the memory further comprises operational instructions that cause the processing module to:

when the queue occupancy level compares unfavorably to a first queue occupancy threshold:

delete from the call processing queue a previously queued dispensable message when a call signaling message of the plurality of call signaling messages is a dispensable message and when the previously dispensable message exists;

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enqueue the call signaling message into the call processing queue when the previously queued dispensable message is deleted; and

enqueue the call signaling message into the call processing queue when the call signaling message is an indispensable message.

35. (Previously presented) The call signal processing module of claim 32, wherein the memory further comprises operational instructions that cause the processing module to:

compare the queue occupancy level with a second queue occupancy threshold;

when the queue occupancy level compares unfavorably with the second queue occupancy threshold:

delete a previously queued dispensable message from the call processing queue when a call signaling message of the plurality of call signaling messages is a dispensable message or an indispensable message and when the previously dispensable message exists;

enqueue the call signaling message into the call processing queue when the previously queued dispensable message is deleted.

36. (Original) The call signal processing module of claim 35, wherein the memory further comprises operational instructions that cause the processing module to:

delete from the call processing queue a previously queued indispensable message when the previously queued dispensable message does not exist and when the call signaling message is an indispensable message and when the previously indispensable message exists; and

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enqueue the call signaling message into the call processing queue when the previously queued indispensable message is deleted.

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(Canceled)

38. (Previously presented) The call signal processing module of claim 32, wherein the memory further comprises operational instructions that cause the processing module to: update the plurality of dequeuing lists when enqueuing changes occur, wherein the enqueuing changes occur when the queue occupancy level compares unfavorably with a first queue occupancy threshold or when the queue occupancy level compares unfavorably with a second queue

occupancy threshold.

39. (Previously presented) The call signal processing module of claim 32, wherein the memory further comprises operational instructions that cause the processing module to: dequeue dispensable call messages from the call processing queue in a LIFO manner based on the ordered

list of dispensable messages when in a sustained overloading condition.

40. (Previously Presented) The method of claim 32, wherein the first dequeuing

manner further comprises at least one of FIFO and LIFO.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to KENNETH TANG whose telephone number is (571)272-3772. The examiner can normally be reached on 8:30AM - 6:00PM, Every other Friday off.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Meng-Ai An can be reached on (571) 272-3756. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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